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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [A dynamic cluster maintenance system for information retrieval](#)**

F. Can, E. Ozkarahan

 November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: pdf(937.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Partitioning by clustering of very large databases is a necessity to reduce the space/time complexity of retrieval operations. However, the contemporary and modern retrieval environments demand dynamic maintenance of clusters. A new cluster maintenance strategy is proposed and its similarity/stability characteristics, cost analysis, and retrieval behavior in comparison with unclustered and completely reclustered database environments have been examined by means of a series of experi ...

**2 [Incremental clustering for dynamic information processing](#)**

Fazli Can

 April 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 2

 Full text available: pdf(1.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering of very large document databases is useful for both searching and browsing. The periodic updating of clusters is required due to the dynamic nature of databases. An algorithm for incremental clustering is introduced. The complexity and cost analysis of the algorithm together with an investigation of its expected behavior are presented. Through empirical testing it is shown that the algorithm achieves cost effectiveness and generates statistically valid clusters that are compatibl ...

**Keywords:** best-match cluster search, cluster validity, cover coefficient, dynamic information retrieval environment, information retrieval, information retrieval effectiveness, information retrieval efficiency

**3 [Incremental clustering and dynamic information retrieval](#)**

Moses Charikar, Chandra Chekuri, Tomás Feder, Rajeev Motwani

 May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**

 Full text available: pdf(1.58 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



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### 1 [Techniques for measuring the stability of clustering: a comparative study](#)

Vijay V. Raghavan, M. Y. L. Ip

 May 1982 **Proceedings of the 5th annual ACM conference on Research and development in information retrieval**

Full text available: pdf(1.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Among the significant factors in assessing the suitability of a clustering technique to a given application is its stability; that is, how sensitive the algorithm is to perturbations in the input data. A number of techniques that appear to be suitable for measuring the stability of clustering have been published in the literature. The details about each of these measures, such as a description of the steps involved in their computation and an identification of precisely what they measure, are pr ...

### 2 [Special issue on the PAPA 2002 workshop: On the stability of network distance estimation](#)

Yan Chen, Khian Hao Lim, Randy H. Katz, Chris Overton

 September 2002 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 2

Full text available: pdf(947.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Overlay network distance monitoring and estimation system can benefit many new applications and services, such as peer-to-peer overlay routing and location. However, there is a lack of such scalable system with small overhead, good usability, and good distance estimation accuracy and stability. Thus we propose a scalable overlay distance monitoring system, *Internet Iso-bar*, which clusters hosts based on the similarity of their perceived network distance, with no assumption about the under ...

### 3 [Analysis techniques: Scenario-based stability analysis of the distributed mobility-adaptive clustering \(DMAC\) algorithm](#)

Christian Bettstetter, Roland Krausser

 October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(397.41 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Adaptive distributed clustering algorithms and respective protocols are used in wireless ad hoc networks to dynamically organize all nodes into groups and hierarchies. In this paper, we investigate the Distributed Mobility-Adaptive Clustering (DMAC) algorithm proposed in [6]. In particular, we evaluate how the cluster stability (i.e., the number of clusterhead